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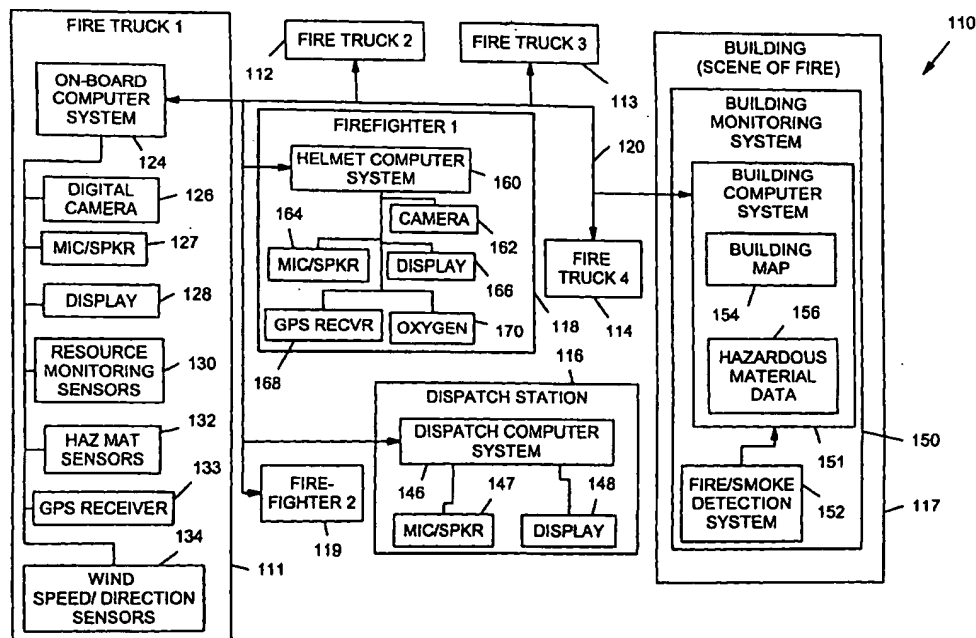
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- Published:
— with international search report
- (88) Date of publication of the international search report: 22 July 2004

[Continued on next page]

(54) Title: **FIRE FIGHTING VEHICLE AND METHOD WITH NETWORK-ASSISTED SCENE MANAGEMENT**



(57) Abstract: A method comprises acquiring information pertaining to a scene of a fire. The acquiring step is performed by a sensor connected to a first computer. The method further comprises transmitting the information from the first computer to a second computer by way of a wireless communication network. The second computer is mounted to a fire fighting vehicle and is connected to a display. The method further comprises displaying the information at the fire fighting vehicle using the display.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 02/41295

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A62C27/00 A62C39/00 A62C3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A62C G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 38 43 043 A (MESSERSCHMITT BOELKOW BLOHM) 28 June 1990 (1990-06-28) the whole document	1,2,5, 14,16
X	US 6 281 790 B1 (JONES JR DONALD R ET AL) 28 August 2001 (2001-08-28) the whole document	1,3,5,9, 11,13, 19,21
Y		2,4,6-8, 10,12, 15-18, 20,23
Y	DE 199 29 434 A (MEYER KARL OTTO) 28 December 2000 (2000-12-28) the whole document	2,6-8, 15-17
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

16 December 2003

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Internati lication No
PCT/US 02/41295

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 115 264 A (AT & T CORP) 11 July 2001 (2001-07-11) paragraphs [0068], [0099] - paragraph [0110] -----	2,6-8, 15,16
Y	WO 01/43827 A (RICHARDSON GRANT STUART ;SECR DEFENCE (GB)) 21 June 2001 (2001-06-21) page 1, line 28 - page 24, line 21 -----	4,10,12, 20,23,26
Y	US 6 199 550 B1 (BOGUCKI MARY SANDRA ET AL) 13 March 2001 (2001-03-13) column 11 - column 13 -----	4,12,26
X	US 5 420 828 A (GEIGER MICHAEL B) 30 May 1995 (1995-05-30) the whole document -----	1,2
Y	-----	18
A	US 2001/034573 A1 (KAPPLER DAVID ET AL) 25 October 2001 (2001-10-25) paragraph [0035] - paragraph [0090] -----	1,5,14, 16
Y	paragraph [0064] -----	26
Y	US 5 124 915 A (KRENZEL ARTHUR) 23 June 1992 (1992-06-23) column 5, lines 36-41 -----	4,12,26

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INTERNATIONAL SEARCH REPORT

Inte application No.
'US 02/41295

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-21, 23, 26, 27

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-21,23,26,27

Network-assisted scene management involving communication between vehicles and/or building.

2. claims: 22,24,25

Resource management for fire-fighting vehicles

3. claims: 28,29

Acquiring information pertaining to the wind in order to map an area possibly affected by movement of hazardous material by the wind.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT, US 02/41295

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3843043	A	28-06-1990	DE 3843043 A1	28-06-1990
US 6281790	B1	28-08-2001	AU 768739 B2	08-01-2004
			AU 7574500 A	26-03-2001
			CA 2383431 A1	08-03-2001
			EP 1212737 A1	12-06-2002
			JP 2003524826 T	19-08-2003
			NO 20020967 A	30-04-2002
			WO 0116912 A1	08-03-2001
			US 2002174367 A1	21-11-2002
DE 19929434	A	28-12-2000	DE 19929434 A1	28-12-2000
EP 1115264	A	11-07-2001	CA 2326278 A1	30-06-2001
			EP 1115264 A2	11-07-2001
WO 0143827	A	21-06-2001	CA 2394890 A1	21-06-2001
			EP 1237627 A1	11-09-2002
			WO 0143827 A1	21-06-2001
			JP 2003516831 T	20-05-2003
			US 2002190866 A1	19-12-2002
US 6199550	B1	13-03-2001	US 2003062046 A1	03-04-2003
			US 6606993 B1	19-08-2003
US 5420828	A	30-05-1995	NONE	
US 2001034573	A1	25-10-2001	US 6188939 B1	13-02-2001
			AU 8912298 A	08-03-1999
			CA 2305158 A1	25-02-1999
			WO 9908897 A1	25-02-1999
			US 6161066 A	12-12-2000
US 5124915	A	23-06-1992	NONE	

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